

Solve the equation.

1.

2.

Rewrite the expression using exponent notation.

3. $\frac{1}{x^2}$

Rewrite the expression using radical notation.

4. $x^{\frac{1}{2}}$

Simplify the expression.

5. $x^2 + 3x^2$

6. $\frac{x^2 + 3x^2}{x^2}$

7. $x^2 + 3x^2$

Let $a = 2$ and $b = 3$. Perform the indicated operation.

8. $a + b$

9. $a - b$

10. $a \cdot b$

11. $\frac{a}{b}$

Find the inverse of the function.

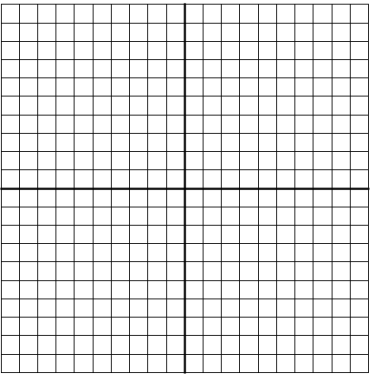
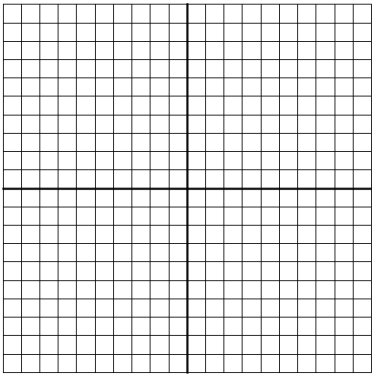
12. $-$

13.

Graph the function. State the domain and range.

14. _____

15. _____



Solve the equation. Don't forget to check for extraneous solutions!

16. _____

17. _____

18. _____